

SolarTech Power Solutions

Yaounde Communication Green Base Station Solution Design



Overview

Are green base stations a problem?

As society grows increasingly more aware of green energy sources, governments also start modifying their power rules to support them. As a result, problems with green base stations became the focus of a significant amount of recent ICT research efforts .

Can base stations reduce energy consumption while maintaining quality of service (QoS)?

Liu et al. , this research proposes a sleeping algorithm for base stations (BSs) in wireless access networks to reduce energy consumption while maintaining quality of service (QoS). The algorithm relies on location data from user equipment (UE) which is sent to the mobility management entity or serving gateway (MME/S-GW).

Are baseband transceiver components suitable for the 3GPP NR system?

Concerns about sustainability have arisen as a result of the substantial rise in energy usage in wireless communications brought about by the quick development of 5G and 6G networks . To address this, the authors of this study developed baseband transceiver components for the 3GPP NR system.

What is a base station (GNB)?

As the central part of information flow, base stations also known as gNBs are widely distributed. Located the nearest to end users, gNBs have more real-time data that can be used to balance network requirements and energy consumption.

How do micro-base stations maximize spectral efficiency?

A greedy algorithm is employed to place micro-base stations, maximizing area spectral efficiency. Renewable energy base stations, generating energy from sources like sunlight and wind, are introduced. To optimize renewable energy

usage, micro-stations operate in non-adjacent time slices, reducing reliance on the grid.

What is intelligent base station edge decision-making?

Intelligent Base Station Edge decision-making boosts performance 03
Information flow moves from terminals – air interface - AAU/RRU/BBU –
transmission network –core network to Internet. As the central part of
information flow, base stations also known as gNBs are widely distributed.

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